	Application No.	Applicant(s)	
Notice of Allowability	10/667,814	BERNER ET AL	
	Examiner	Art Unit	
	Bruce F. Bell	1746	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in the or other appropriate communing GHTS. This application is subsequently the community of the communi	nis application. If not includication will be mailed in due	ed course. THIS
 This communication is responsive to the application as file. 	d on 09/22/2003.		
2. ☑ The allowed claim(s) is/are <u>11-45</u> .			
3. $igotimes$ The drawings filed on 22 September 2003 are accepted by	the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the delow. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☒ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	been received. been received in Application cuments have been received in the communication to file a ENT of this application. itted. Note the attached EXAM is reason(s) why the oath or desired.	No In this national stage application of No INER'S AMENDMENT or No.	quirements
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) in to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review (Amendment / Comment or in 84(c)) should be written on the	the Office action of	e back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 			Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0-Paper No./Mail Date 12/22/2003 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sum Paper No./Ma 8), 7. ☑ Examiner's An	mal Patent Application (PT0 mary (PTO-413), ail Date nendment/Comment atement of Reasons for Allo	,
		Bruce F. Bell Primary Examiner Art Unit: 1746	

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Oath/Declaration

1. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

The oath and declaration has been signed by only one inventor. A new oath and declaration is required with all the inventors of this application signing the oath and declaration.

2. Applicant is now required to submit a substitute declaration or oath to correct the deficiencies set forth above. The substitute oath or declaration must be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability" (PTO-37). Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136. Failure to timely file the substitute declaration (or oath) will result in ABANDONMENT of the application. The transmittal letter accompanying the declaration (or oath) should indicate the date of the "Notice of Allowance" (PTOL-85) and the application number in the upper right hand corner.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

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Change the beginning paragraph for the specification that was submitted in the preliminary amendment to the following:

This application is a continuation of U.S. Application No. 09/910,299, filed July 20, 2001, now U.S. Patent No. 6,627,051, which is a divisional of U.S. Application No. 09/440,761, filed November 16, 1999, now U.S. Patent No. 6,322,674, which is a divisional of U.S. Application No. 08/933,450, filed September 18, 1997, now U.S. Patent No. 6,004,440, and entitled "Cathode Current Control System for a Wafer Electroplating Apparatus".

REASONS FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach and/or suggest an electroplating apparatus having a current control system as set forth in the instant claims, wherein the electroplating current flowing through each respective electrode is controlled in order to more uniformly coat the plating material over the surface of the object to be plated. The control system circuit for regulating and adjusting the resistance elements by way of the current supplied to the resistance elements is also not taught or suggested.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce F. Bell whose telephone number is 571-272-1296. The examiner can normally be reached on Monday-Friday 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BFB June 10, 2004 Bruce F. Bell
Primary Examiner
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